## IN THE CLAIMS

Applicants respectfully request that the above-identified application be amended as follows:

(Original) A method of determining at least one candidate patch for human faces in a color graphic image, comprising:

determining a first area wherein a color gradient has a low value;

determining a second area wherein an intensity value has a high value;

performing a logical AND on said first area and said second area to create a third area; and

selecting portions of said third area with suitable hue saturation to form said at least one candidate patch.

- 2. (Original) The method of claim 1, wherein said determining said first area uses a first threshold value comparison.
- 3. (Original) The method of claim 2, wherein said first threshold value is determined by normalization.
- 4. (Original) The method of claim 1, wherein said determining said second area uses a second threshold value comparison.
- 5. (Original) The method of claim 4, wherein said second threshold is determined by normalization.

- 6. (Original) The method of claim 1, further comprising eroding said third area.
- 7. (Original) The method of claim 6, wherein said eroding is morphological.
- 8. (Original) The method of claim 1, further comprising fitting an ellipse to one of said at least one candidate patch.
- 9. (Original) The method of claim 8, further comprising determining if said ellipse is a bad fit to said one of said at least one candidate patch.
- 10. (Original) The method of claim 9, further processing said one of said at least one candidate patch when said ellipse is a bad fit.
- 11. (Original) The method of claim 10, further comprising determining if said one of said at least one candidate patch is too smooth.
- 12. (Original) A system configured to determine at least one location of a human face in a color graphic image, comprising:

a color gradient map configured to indicate true where a color gradient has a low value;

an intensity map configured to indicate true where an intensity value has a high value;

a combined map configured to indicate true where said color gradient map is true and said intensity map is true; and

at least one candidate patch selected from said combined map, wherein said candidate patches each have suitable hue saturation.

- 13. (Original) The system of claim 12, wherein said color gradient map includes a first threshold.
- 14. (Original) The system of claim 13, wherein said first threshold is determined by normalization.
- 15. (Original) The system of claim 12, wherein said intensity map includes a second threshold.
- 16. (Original) The system of claim 15, wherein said second threshold is determined by normalization.
- 17. (Original) The system of claim 12, wherein said combined map includes an eroded boundary.
- 18. (Original) The system of claim 17, wherein said boundary is morphologically eroded.

- 19. (Original) The system of claim 12, further comprising an ellipse fitted to said at least one candidate patch.
- 20. (Original) The system of claim 19, wherein said ellipse includes a degree of fit measure.
- 21. (Original) The system of claim 20, wherein said at lease one candidate patch is marked for further processing when said degree of fit is bad.
- 22. (Original) The system of claim 21, further comprising a candidate patch examiner configured to determine whether said at least one candidate patch is too smooth.
- 23. (Original) A machine-readable medium having stored thereon instructions for processing elements, which when executed by said processing elements perform the following: determining a first area wherein a color gradient has a low value; determining a second area wherein an intensity value has a high value; performing a logical AND on said first area and said second area to create a third area; and

selecting portions of said third area with suitable hue saturation to form at least one candidate patch.

24. (New) The machine-readable medium of claim 23, wherein said determining said first area uses a first threshold value comparison.

- 25. (New) The machine-readable medium of claim 24, wherein said first threshold value is determined by normalization.
- 26. (New) The machine-readable medium of claim 23, wherein said determining said second area uses a second threshold value comparison.
- 27. (New) The machine-readable medium of claim 26, wherein said second threshold is determined by normalization.
- 28. (New) The machine-readable medium of claim 23, further comprising eroding said third area.
- 29. (New) The machine-readable medium of claim 28, wherein said eroding is morphological.
- 30. (New) The machine-readable medium of claim 23, further comprising fitting an ellipse to one of said at least one candidate patch.
- 31. (New) The machine-readable medium of claim 30, further comprising determining if said ellipse is a bad fit to said one of said at least one candidate patch.
- 32. (New) The machine readable medium of claim 31, further processing said one of said at least one candidate patch when said ellipse is a bad fit.

- 33. (New) The machine-readable medium of claim 32, further comprising determining if said one of said at least one candidate patch is too smooth.
  - 34. (New) A apparatus comprising:

    a processor coupled to a memory through a bus; and
    a detection process executed by the processor from the memory to cause the
    processor to determine a first area wherein a color gradient has a low value;
    determine a second area wherein an intensity value has a high value;
    perform a logical AND on said first area and said second area to create a third
    area; and

select portions of said third area with suitable hue saturation to form said at least one candidate patch.

- 35. (New) The apparatus of claim 34, wherein the detection process to further cause the processor, when determining said first area, to use a first threshold value comparison.
- 36. (New) The apparatus of claim 35, wherein said first threshold value is determined by normalization.
- 37. (New) The apparatus of claim 34, the detection process to further cause the processor, when determining said second area, to use a second threshold value comparison.
- 38. (New) The apparatus of claim 37, wherein said second threshold is determined by normalization.

- 39. (New) The apparatus of claim 34, the detection process to further cause the processor to erode said third area.
  - 40. (New) The apparatus of claim 39, wherein said eroding is morphological.
- 41. (New) The apparatus of claim 34, the detection process to further cause the processor to fit an ellipse to one of said at least one candidate patch.
- 42. (New) The apparatus of claim 41, the detection process to further cause the processor to determine if said ellipse is a bad fit to said one of said at least one candidate patch.
- 43. (New) The apparatus of claim 42, the detection process to further cause the processor to process said one of said at least one candidate patch when said ellipse is a bad fit.
- 44. (New) The apparatus of claim 43, the detection process to further cause the processor to determine if said one of said at least one candidate patch is too smooth.
  - 45. (New) A apparatus, comprising:

    a means for determining a first area wherein a color gradient has a low value;

    a means for determining a second area wherein an intensity value has a high value;
  - a means for performing a logical AND on said first area and said second area to create a third area; and

19

a means for selecting portions of said third area with suitable hue saturation to

Form at least one candidate patch.